



CE



Model Number

ML100-8-H-350-RT/103/115

Background suppression sensor with 2 m fixed cable

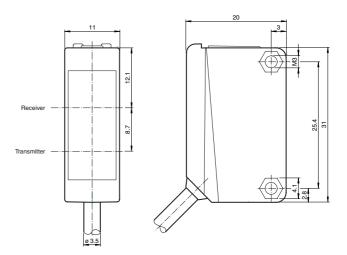
Features

- · Miniature design
- Easy to use
- · Very bright, highly visible light spot
- · Full metal thread mounting
- Highly visible LEDs for Power ON and switching state
- Not sensitive to ambient light

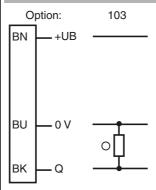
Product information

The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly visible LEDs.

Dimensions

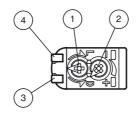


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



1	Light-Dark-switching	
2	Sensitivity adjuster	
3	Signal display	yellow
4	Operating display	green



Technical data						
General specifications						
Detection range		5 350 mm				
Detection range min.		5 30 mm				
Detection range max.		5 350 mm				
Adjustment range		30 350 mm				
Reference target Light source Light type		standard white, 100 mm x 100 mm LED modulated visible red light				
				Polarization filter		no
				Black/White difference (6 %/90 %)		< 18 % at 350 mm
Diameter of the light spot		approx. 20 mm at a distance of 350 mm				
Angle of divergence		approx. 4 °				
Optical face		frontal				
Ambient light limit		EN 60947-5-2:2007+A1:2012				
Functional safety related paran	neters					
• •	ileters	860 a				
MTTF _d		20 a				
Mission Time (T _M)		0%				
Diagnostic Coverage (DC)		0 /6				
Indicators/operating means		150				
Operation indicator		LED green: power on				
Function indicator		LED yellow: lights when object is detected				
Control elements		Sensing range adjuster				
Control elements		Light-on/dark-on changeover switch				
Electrical specifications						
Operating voltage	U _B	10 30 V DC				
Ripple		max. 10 %				
No-load supply current	I ₀	< 20 mA				
Output						
Switching type		The switching type of the sensor is adjustable. The default se ting is: light on				
Signal output		1 PNP output, short-circuit protected, reverse polarity protected open collector				
Switching voltage		max. 30 V DC				
Switching current		max. 100 mA , resistive load				
Voltage drop	U_d	≤ 1.5 V DC				
Switching frequency	f	500 Hz				
Response time		1 ms				
Ambient conditions						
Ambient temperature		-30 60 °C (-22 140 °F)				
Storage temperature		-40 70 °C (-40 158 °F)				
Mechanical specifications		,				
Degree of protection		IP67				
Connection		2 m fixed cable				
Material						
Housing		PC (Polycarbonate)				
Optical face		PMMA				
Mass		approx. 50 g				
Tightening torque, fastening screws		0.6 Nm				
Cable length		2 m				
Compliance with standards and	d directi					
Ves Directive conformity						
Directive conformity		EN 60947-5-2:2007+A1:2012				
EMC Directive 2004/108/EC		EIN 00947-3-2:2007+AT:2012				
Standard conformity		LII 00047 F 0				
Standards		UL 60947-5-2				
Approvals and certificates						
UL approval		cULus Listed, Class 2 Power Source or listed Power Supply with a limited voltage output with (maybe integrated) fuse				
		(max. 3.3 A according UL248), Type 1 enclosure				

Accessories

OMH-ML100-01

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-02

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-03

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-ML100-04

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-05

Mounting aid for ML100 series, Mounting bracket

OMH-F10-ML100

Mounting aid for ML100 series

OMH-10

Mounting aid

OMH-ML100-S1

Mounting bracket

OMH-ML100-08

Mounting aid for ML100 series, Snap-in

Other suitable accessories can be found at www.pepperl-fuchs.com

CCC approval

CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams

